

Data sheet

Connection line M12 plug straight - RJ45 plug straight
AWG 26 4-pole, D-coded 2.0 m

Page 1/6

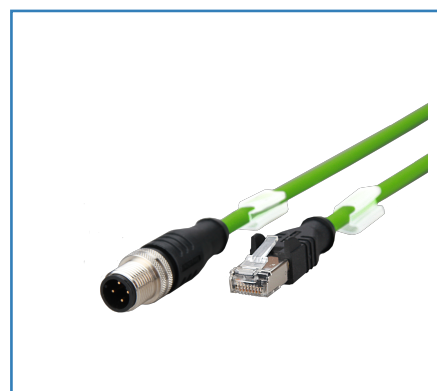
P/N

142M4D15020

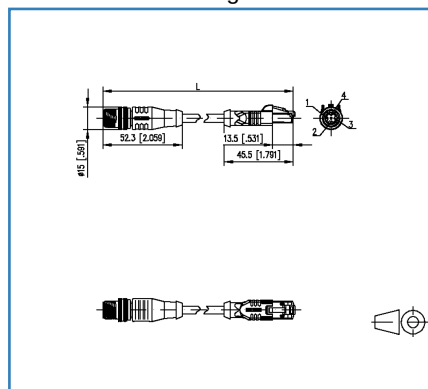
EAN 4250184172697

2017-10-10

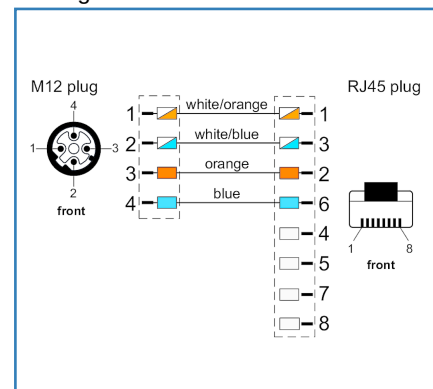
Illustrations



Dimensional drawing



Wiring



See enlarged drawings at the end of document

Product specification

- shielded M12 to RJ45 Ethernet connection line
- Cat.5, 4-pole, D-coded (IEC 61076-2-101)
- M12 connector, straight to RJ45 connector
- connectors over molded
- stranded wires 4x1xAWG26/19
- overall shield tinned copper braid
- pin assignment per Profinet
- green cable, PUR
- standard variants: 1.0 m, 2.0 m, 5.0 m, 10.0 m
- other cable lengths on request



Data sheet

Page 2/6

Connection line M12 plug straight - RJ45 plug straight AWG 26 4-pole, D-coded 2.0 m

P/N

142M4D15020

EAN 4250184172697

2017-10-10

Technical Data

General Data

Fields of application

Industrial Ethernet

Design

Ethernet-Connection line

Shielding

shielded

Transmission technology

Copper

Cable Type

S/FTQ

Number of twisting elements

4

Twisting element

single core

Wiring

Profinet

Color

green

Dimensions

Dimension - Interface 1 (L x W x H)

45.50 x 13.30 x 13.60 mm

Dimension - Interface 1 (L x W x H)

1.791 x 0.524 x 0.535 in.

Dimension - Interface 2 (L x W x H)

52.30 x 15.00 x 15.00 mm

Dimension - Interface 2 (L x W x H)

2.059 x 0.591 x 0.591 in.

Cable length (m)

2.00 m

Cable length (ft)

6.56 ft

Labeling option

identification label carrier

Transmission characteristics

Category (ISO)

5

Connections/interfaces

Connector technology interface 1

RJ45 plug

Connector technology interface 2

M12-plug

Coding interface 2

D-coded

Number of positions/contacts interface 1

8P/4C

Number of positions/contacts interface 2

4

Termination data, stranded wire (min. - max.)

Conductor cross section, stranded wire

AWG 26/19

Conductor cross section, stranded wire

0.141 mm²

Conductor diameter, stranded wire (bare copper)

0.483 mm

Conductor diameter, stranded wire (bare copper)

0.019 in.



Data sheet

Page 3/6

Connection line M12 plug straight - RJ45 plug straight AWG 26 4-pole, D-coded 2.0 m

P/N

142M4D15020

EAN 4250184172697

2017-10-10

Technical Data

Connections/interfaces

Cable sheath diameter (min. - max.)

Cable sheath diameter 4.80 mm

Cable sheath diameter 0.157 in.

acceleration 5 m/s²

Electrical characteristics

Current carrying capacity max. 1 A

Through resistance max. 5 mOhm

Insulation resistance min. 100 MOhm

Mechanical characteristics

Position/mounting of latch - standard installation position top

Torsion min. ± 30°/m

Bending radius without load min. 36 mm

Shielding braid coverage 85 %

Materials and material properties

Material - Conductor Cu (copper)

Material - Cable jacket PUR

Material - Inner cable jacket FRNC, with an aluminized film

Material - Plug housing interface 1 PVC (polyvinyl chloride)

Material - Body interface 2 Plastics

Material - Contact interface 1 CuSn (tin bronze)

Material - Contact interface 2 CuZn (brass)

Material - Contact finish interface 1 Au (gold)

Material - Contact finish interface 2 Au (gold)

Material - Contact carriers interface 2 Plastics

Material - Union nut interface 2 CuZn (brass)

Material - Union nut finish interface 2 Ni (nickel)

Material - Shield interface 1 CuSn (tin bronze)

Material - Main shield Cu (copper) braid

Material - Main shield finish Sn (tin)

Flame retardancy yes

Halogen free yes



Data sheet

Page 4/6

Connection line M12 plug straight - RJ45 plug straight AWG 26 4-pole, D-coded 2.0 m

P/N

142M4D15020

EAN 4250184172697

2017-10-10

Technical Data

Materials and material properties

Silicone free	yes
Oil resistance	yes
UV-resistance	yes

Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-40 - 80 °C
Temperature - Storage °F	-40 - 176 °F
Temperature - Operating °C	-40 - 80 °C
Temperature - Operating °F	-40 - 176 °F
Particulate ingress interface 1	IP2X
Liquid ingress/immersion interface 1	IPX0
Particulate ingress interface 2	IP6X when plugged in
Liquid ingress/immersion interface 2	IPX7 when plugged in
Pollution degree interface 1	1
Pollution degree interface 2	3

Approvals

RoHS	compliant
------	-----------

The product meets the following standards

Connectors for electronic equipment	
circular connector	DIN EN 61076-2-101
Multi-element metallic cables used in analogue and digital communication and control	DIN EN 50288-4-1
Test for vertical flame propagation for a single insulated wire or cable	DIN EN 60332-1
Measurement of smoke density of cables burning	DIN EN 61034

Classifications

ETIM 5.0	EC002599
ETIM 6.0	EC002599



Data sheet

Page 5/6

Connection line M12 plug straight - RJ45 plug straight AWG 26 4-pole, D-coded 2.0 m

P/N

142M4D15020

EAN 4250184172697

2017-10-10

Technical Data

Packing details

Type of packaging	1 pc(s) / plastic bag
Packaging unit - Weight (gram)	108.00 g
Packaging unit - Weight (pound)	0.24 lb



Data sheet

Page 6/6

Connection line M12 plug straight - RJ45 plug straight AWG 26 4-pole, D-coded 2.0 m

P/N

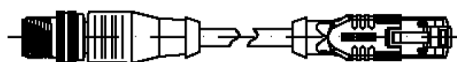
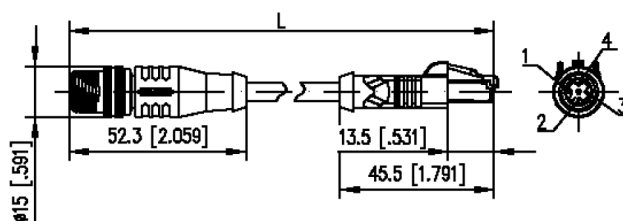
142M4D15020

EAN 4250184172697

2017-10-10

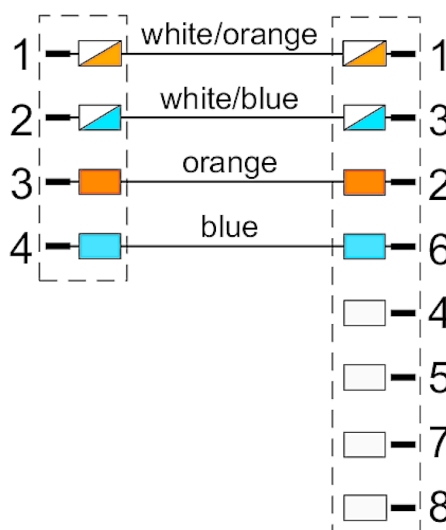
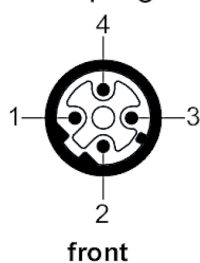
Illustrations

Dimensional drawing



Wiring

M12 plug



RJ45 plug

